Notice of Allowability	Application No.	Applicant(s)	
	10/629,889	KIM ET AL.	
	Examiner	Art Unit	
	Thai D. Hoang	2616	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. X This communication is responsive to <u>Amendment filed on 6/25/2007</u> .			
2. ☑ The allowed claim(s) is/are <u>1-10</u> .			
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 			
2. ☐ Certified copies of the priority documents have been received in Application No			
3. Copies of the certified copies of the priority documents have been received in this national stage application from the			
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.			
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached			
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).			
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s) 1. □ Notice of References Cited (PTO-892)	5.	atent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary		
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dat 7.	nent/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allo	wance
of Biological Material	9.		

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DETAILED ACTION

Allowable Subject Matter

Claims 1-10 are allowed.

Claims 1-6 are allowed for reasons given in the previous action.

The following is an examiner's statement of reasons for allowance claims 7-10:

Kuo et al, US Patent No. 7,031,343 B1, discloses "Point-to-multipoint passive optical network that utilizes variable-length packets". Kuo does not teach or fairly suggest the following features that are recited in independent claim 7:

A grant scheduling method in a multi-point control protocol (MPCP) processing method over an Ethernet Passive Optical Network (PON) including an Optical Line Termination (OLT) and an Optical Network Unit (ONU), the method of grant scheduling comprising:

- (a) determining a length of grants separately for static and dynamic grants;
- (b) determining a start time of the grants after the static and dynamic grants are multiplexed;
- (c) subtracting a round trip time (RTT) value of the corresponding ONU from the start time, and
- (d) scheduling the grants based on the length of the grants and the start time of the grants, and sending the grants to the ONUs,

wherein the step (b) further comprising a last scheduled time register
which is incremented for each generated grant as much as the length of the grant
and after this increment, becomes the start time of the following grant, and when

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there no scheduled grants occur for a predetermined time, and the last scheduled time register is a past value or the last scheduled time register is not sufficiently ahead of the current time by a predetermined time, the last scheduled time register is advanced to a future time with a predetermined minimum offset.

Claims 8-10 are allowed because they depend on allowed claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai D. Hoang whose telephone number is (571) 272-3184. The examiner can normally be reached on Monday-Friday 10:00am-6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on (571) 272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

SUPERVISORY PATENT EXAMINER

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thai Hoang/

SUPERVISORY PATENT EXAMINER